

# Desktop/Laptop Recommended Specifications

**Note:** Windows 10 Professional 64 is recommended if you do not use any specialized administrative software. Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro will be approved. If an earlier Windows system is required consult with OTECH on installation of a virtual machine for the specialized software. Any form factor that conforms to your workspace environment is acceptable. UPS Power Protection is highly recommended to add to your requisitions.

## Recommended PC Desktop Hardware

### Desktop – minimum

Expect to use the computer for basic productivity, running multiple applications such as e-mail, web browsing, word processing, music and video players, and photo organization.

Category	Description
Processor	Intel Core i5-6500 Processor (6MB Cache, up to 3.60GHz)
Memory	At least 4GB RAM
Hard drive	At least 500GB SATA hard disk (7200 RPM)
Optical Device	Slim DVD Burner/CD-RW, SATA
Ethernet	10/100/1000 Mbps (Gigabit) Ethernet
Monitor	22" LCD display, with Energy Star rating
Video card/VRAM	128 MB video RAM
Ports	At least 3 USB 3.0 ports
Operating system	Windows 10 64-bit Professional or Win 7 Pro 64 downgrade preloaded
Warranty	3-5 year onsite next business day manufacturer's warranty

## Desktop – power user

In addition to the tasks above, expect to use the computer for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and other processor or storage intensive situations or applications.

Category	Description
Processor	Intel Core i7-6700 up to 4.0GHz with 8M cache
Memory	16GB expandable to 32GB RAM
Hard drive	At least 1TB SATA III hard disk (7200 RPM)
Optical	DVD Burner/CD-RW, SATA
Ethernet	Integrated Intel Gigabit Ethernet
Monitor	At least 23" LCD display, with Energy Star rating
Video card/VRAM	NVIDIA GeForce GT620, 1GB, DP+VGA
Ports	At least 4 USB 3.0 ports, 2x Display ports
Operating system	Windows 10 64-bit Professional or Win 7 Pro 64 downgrade preloaded
Warranty	3-5 year onsite next business day manufacturer's warranty

# Recommended Mac Desktop Hardware

## Desktop – Minimum

Expect to use the iMac for basic productivity, running multiple applications such as e-mail, web browsing, word processing, spreadsheets, and presentations.

Category	Description
Processor	iMac 21.5" (diagonal) Retina 4K display with IPS technology 4096 x 2034 resolution 3.1 GHz quad-core Intel Core i5
Memory	8 GB of 1867MHz LPDDR3 onboard Memory
Hard drive	1 TB 5400 rpm hard drive Configurable up to 1TB Fusion Drive or 256GB of flash storage (SSD)
Graphics	Intel Iris Pro Graphics 6200
Ethernet	10/100/1000Base-T Gigabit Ethernet
Audio	Stereo Speakers, dual microphones, 3.5mm headphone jack
Operating system	Mac OS X El Capitan
Warranty	3 year AppleCare Protection Plan

## Desktop – Power User

In addition to the tasks above, expect to use the iMac for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, and storing large multimedia files.

Category	Description
Processor	iMac 27" (diagonal) Retina 5K display with IPS technology 5120 x 2880 resolution 3.3 GHz quad-core Intel Core i5
Memory	8 GB of 1867MHz LPDDR3 onboard Memory; 4 SO-DIMM slots
Hard drive	2 TB Fusion Drive Configurable up to 3TB Fusion Drive or up to 1 TB of flash storage (SSD)
Graphics	AMD Radeon R9 M395 graphics processor with 2GB of GDDR5 memory  Configurable to AMD Radeon R9 M395X with 4GB of GDDR5 memory
Ethernet	10/100/1000 Mbps (Gigabit) Ethernet
Audio	Stereo Speakers, dual microphones, 3.5mm headphone jack
Operating system	Mac OS X El Capitan
Warranty	3 year AppleCare Protection Plan

# Recommended PC Laptop Hardware

## Laptop – Minimum

Expect to use the computer for basic productivity, running multiple applications such as e-mail, web browsing, word processing, music and video players, and photo organization.

Category	Description
Processor	Intel Core i5-5200U 2.70GHz, with 3M cache
Memory	At least 8GB RAM
Hard drive	At least 500GB SATA hard disk (7200 RPM)
Optical drive	DVD Recordable
Ethernet	10/100/1000 Mbps (Gigabit) Ethernet
Wireless	802.11 a/g/n (WPA2 Enterprise-compatible) with Bluetooth 4.0
Graphics	Intel HD Graphics 4600
Ports	At least 2 USB 3.0 ports
Battery	6-cell battery
Integrated fingerprint reader	Wherever available
Operating system	Windows 10 64-bit Professional or Win 7 Pro 64 downgrade preloaded
Warranty	3-5 year onsite next business day manufacturer's warranty

## Laptop – Power User

In addition to the tasks above, expect to use this laptop for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, storing large multimedia files and playing games.

Category	Description
Processor	Intel Core i7-5600U 3.2 GHz 6M cache or faster
Memory	At least 8GB RAM
Hard drive	At least 500GB SATA hard disk (7200 RPM)
Optical drive	DVD Recordable
Ethernet	10/100/1000 Mbps (Gigabit) Ethernet
Wireless	802.11 a/g/n (WPA2 Enterprise-compatible)
Graphics	Intel HD Graphics 4600
Ports	At least 2 USB 3.0 ports
Battery	9-cell battery
Integrated fingerprint reader	Wherever available (not required for students)
Operating system	Windows 10 64-bit Professional or Win 7 Pro 64 downgrade preloaded
Warranty	3-5 year onsite next business day manufacturer's warranty

# Recommended Mac Laptop Hardware

## Laptop – Minimum

Expect to use the laptop for basic productivity, running multiple applications such as e-mail, web browsing, word processing, music and video players, and photo organization.

Category	Description
Model	13.3" diagonal LED backlit with IPS technology 2560 by 1600 MacBook Pro
Processor	2.7 GHz Intel dual Core i5 with 3MB cache
Memory	At least 8GB RAM
Hard drive	At least 512GB PCIe-based flash storage
Optical drive	Superdrive
Ethernet	Apple Thunderbolt to Gigabit Ethernet Adapter
Wireless	802.11 a/g/n (WPA2 Enterprise-compatible) with Bluetooth 4.0
Operating system	Mac OS X El Capitan
Warranty	3 year AppleCare Protection Plan

## Laptop – Power user

In addition to the tasks above, expect to use the laptop for resource intensive programs for audio/video editing, graphic design, running multiple operating systems, and storing large multimedia files.

Category	Description
Model	15.4" diagonal LED backlit with IPS technology 2880 by 1800 MacBook Pro
Processor	2.5 GHz Quad Intel Core i7
Memory	16GB RAM
Hard drive	At least 512 GB PCIe based flash storage
Optical drive	Superdrive
Ethernet	Apple Thunderbolt to Gigabit Ethernet Adapter
Wireless	802.11 a/g/n (WPA2 Enterprise-compatible) with Bluetooth 4.0
Operating system	Mac OS X El Capitan
Warranty	3 year AppleCare Protection Plan